Software Development Project

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Project 4: Arm control

Overview of the code

- Path generator
- Path transformer
- IK trajectory solver
- Trajectory Time parametrizer
- Trajectory executor

Problems/challenges in the task:

- Reproduction of the issue
- Debugging and trying to localise the possible problem causes
- Finding ways to perceive the trajectory
- Compatability issues

Software Requirements:

- Moveit commander
- openCv
- ROS
- Gazebo
- Rviz

Code current status demo:

- Demo for the arm control is currently running

Long-term goals::

- Solve the issues in the IK trajectory solver, Trajectory Time parametrizer and Trajectory executor functionalities.
- Perceive and follow the trajectory from a sheet of paper
- Refactoring the code

Short-term goals::

- Code walk through for the following components:
    - IK trajectory solver
    - Trajectory Time parametrizer
    - Trajectory executor